

AMENDMENT(S) TO THE CLAIMS

1-38. (Canceled)

39. (Previously Amended) An apparatus for classifying mixed recyclable materials,
2 comprising:

4 a generally V-shaped disc screen including a plurality of interleaved discs defining a laterally
inclined trough and a pair of inclined regions extending from opposite sides of the trough and means
for rotating the discs, and

6 wherein the discs are configured, spaced and rotatable at predetermined speeds in the
appropriate directions so that mixed recyclable materials deposited on the trough will be divided into
8 streams passing through the discs, over the upper ends of the inclined regions, and off a lower end
of the trough.

40-43. (Canceled)

44. (Currently Amended) An apparatus for classifying mixed recyclable materials,
2 comprising:

4 a frame having a pair of opposite sides and including a base and a pair of inclined sections
mounted to the base to define a generally V-shaped configuration;

means for varying an angle of inclination of the frame;

6 a plurality of shafts each having hollow ends;

a plurality of discs mounted on the shafts;

8 means for rotatably mounting the ends of each of the shafts to the sides of the frame so that
the shafts extend in a longitudinally spaced apart, substantially parallel relation, at a plurality of
10 different vertical heights to follow the generally V-shaped configuration, the discs on adjacent shafts
being interleaved to define a trough and first and second vertically inclined regions, the means for
12 rotatably mounting including a resilient deformable plug inserted into an end of a corresponding
shaft, a stub shaft inserted into a hollow interior opening in the plug, and at least one bearing

14 assembly supported by a corresponding side of the frame, the stub shaft having a portion journaled
in the bearing assembly;

16 drive means for rotating the shafts in predetermined directions; and

18 the first and second vertically inclined regions being configured so that a portion of the
stream of mixed recyclable materials deposited onto the ~~lowermost region~~ trough is conveyed up
the inclined regions and over a pair of terminal upper ends of the inclined regions when the shafts
20 are rotated in predetermined directions.